

PRESTO A30 Process System

The A30, A40 and W40 process circulators combine high performance and a very compact design with the advantages of the PRESTO series for a working temperature range down to -40 $^{\circ}$ C.

Your advantages

- · For highly precise, external temperature applications
- Rapid heating and cooling
- Wide working temperature ranges without changing fluids
- Highest performance with small footprint
- · Space-saving design optimizes space utilization in your lab
- Built-in 5.7" industrial color touchscreen
- USB connection
- Ethernet
- SD-Card slot
- RS232
- Modbus
- RS485 (Accessory)
- Profibus DP (Accessory)
- CCC Anschlüsse für Alarm-Ausgang, Pt100-Externfühler und Standby-Eingang
- Removable ventilation grid
- Pump pressure up to 1.7 bar, max. flow rate 40 l/min
- Temperature stability ±0.01 °C ... ±0.05 °C
- Alarm output
- · Second external Pt100 sensor connection for A40 and W40 (accessory)

Technical data

Available volta	age versions		Cooling	
Order No.	9 420 300		Cooling of compressor	1-stage Air
Available voltage	versions:			
9 420 300.03	200-230V/50Hz (Schu Type F)	ıko Plug - CEE 7/4 Plug		
9 420 300.04	230V/50Hz (UK Plug	Type BS1363A)		
9 420 300.05	230V/50Hz (CH Plug	Type SEV 1011)		
9 420 300.14	208V/60Hz (Nema N6	5-20 Plug)		
Other			Electronics	
Sound pressure le	evel dba	54	External pt100 sensor connection	integrated
Classification		Classification III (FL)	2nd external Pt100 sensor connection	not available
IP Code		IP 21	Integrated programmer	8x60 steps
Pump type		Centrifugal Pump	Temperature control	ICC
Pump type Magn	etically coupled	1	Absolute temperature calibration	3 Point Calibration
			Temperature display	5.7" TFT Touchscreen
			Temperature setting	Touchscreen
Dimensions a	nd volumes		Temperature values	
Internal usable ex	pansion volume l	1.5	Setting the resolution of the temperature	0.01
Minimal process	volume l	2.4	display °C	
Active heat excha	anger volume l	1.4	Working temperature range °C	-30.0 +250.0
Weight kg		62	Temperature stability °C	±0.01 ±0.05
Dimensions cm (W×L×H)	25 x 59 x 62	Ambient temperature °C	+5.0 +40.0
,	,		Temperature display resolution °C	0.01



Pump connections

M24x1.5 male

Performance values

200-230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)

200	//50H	z					
Heatir	ng capa	acity k	N			:	2.1
Coolin	ig capa	acity (E	thano)			
°C	200	100	20	0	-10	-20	-30
kW	0.5	0.5	0.5	0.4	0.28	0.17	0.02
Viscos	sity ma	x. cST				!	50
Refrig	erant					I	R452A
Filling	volum	e g					340
Globa	Warm	ing Po	tential	for R4	152A	:	2140
Carbo	n dioxi	de equ	ivalen	tt		(0.728
Pump	capac	ity flov	v rate l	/min		:	25
Pump	capac	ity flov	v press	sure ba	ar	(0.5

230V/50Hz									
Heating capacity kW									
Cooling capacity (Ethanol)									
°C	200	100	20	0	-10	-20	-30		
kW	0.5	0.5	0.5	0.4	0.28	0.17	0.02		
Viscos	sity ma	ıx. cST					50		
Refrigerant							R452A		
Filling volume g							340		
Globa	Warm	ing Po	tentia	for R4	152A	:	2140		
Carbo	n dioxi	de equ	ivalen	tt			0.728		
Pump capacity flow rate l/min							25		
Pump capacity flow pressure bar 0.5									

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230V/50Hz (UK Plug Type BS1363A)

230V/50Hz								
Heating capacity kW 2.1								
Cooling capacity (Ethanol)								
°C	200	100	20	0	-10	-20	-30	
kW	0.5	0.5	0.5	0.4	0.28	0.17	0.02	
Viscosity max. cST 50								
Refrigerant R452A								
Filling volume g 340								
Global Warming Potential for R452A 2140								
Carbon dioxide equivalent t 0.728								
Pump capacity flow rate I/min 25								
Pump capacity flow pressure bar 0.5								

230V/50Hz (CH Plug Type SEV 1011)

230V/50Hz									
Heating capacity kW 1.7									
Cooling capacity (Ethanol)									
°C	200	100	20	0	-10	-20	-30		
kW	0.5	0.5	0.5	0.4	0.28	0.17	0.02		
Viscos	Viscosity max. cST 50								
Refrig	Refrigerant R452A								
Filling	Filling volume g 340								
Global	l Warm	ing Po	tential	for R4	152A	:	2140		
Carbon dioxide equivalent t 0.728									
Pump capacity flow rate I/min 25									

Pump capacity flow pressure bar

0.5

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208V/60Hz (Nema N6-20 Plug)

208	208V/60Hz							
Heating capacity kW 2								
Cooling capacity (Ethanol)								
°C	200	100	20	0	-10	-20	-30	
kW	0.5	0.5	0.5	0.4	0.3	0.2	0.05	
Viscos	sity ma	ix. cST				50		
Refrig	erant					R449A		
Filling volume g							314	
Globa	l Warm	ning Po	tentia	l for R4	149A		1397	
Carbo	n dioxi	de equ	ivalen	tt			0.439	
Pump capacity flow rate l/min							15	
Pump capacity flow pressure bar							0.5	

Benefits



Touch display. Perfect operation.

With the touch display, the user always has an overview of all values and functions. The intuitive and multilingual menu structure enables perfect control.

100 % Cooling capacity 'Active Cooling Control'

'Active Cooling Control' for cooling available throughout the entire working temperature range, fast cool-down even at higher temperatures



Full control

'Temperature Control Features', for individual optimization, access to all important control parameters, additional settings for band limit, limits, co-speedfactor etc.



Highest measuring accuracy

'Absolute Temperature Calibration' for manual compensation of a temperature difference, 3point calibration



Many interfaces.

Straight-forward remote control, data management, and integration into process structures. USB, Ethernet, RS232, SD card, and alarm off are permanently integrated. Further interfaces available as accessories.



Convenience for several users

Administrator level for customizing instrument settings, user levels with limited permissions for fast and safe defined access, password protection, all levels adjustable

Intelligent temperature control.

Intelligent cascade control - automatic and self-optimizing adaptation of the PID control parameters with external stability of +/- 0.05 °C.



Control from the external application External Pt100 sensor connection for precise measurement and control directly in the external application



Intelligent pump system Reliable and consistent pump capacity,

electronically adjustable pump stages or pressure value, automatic adjustment of pump capacity to viscosity

Space-saving footprint

All connections as well supply and exhaust air are located at the front or rear, no venting grids on the sides, units can be placed close to each other or the application





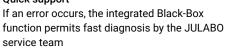
Continuous operation up to +40 °C Robust temperature control instrument, continuous operation even at ambient temperatures of up to +40 °C



Duplicate safety Adjustable high temperature cut-off for internal tank and for integrated expansion vessel



Quick support





Green technology.

Development consistently applied environmentally friendly materials and technologies.



Quick start.

Individual JULABO consultation and comprehensive manuals at your disposal.



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Satisfied customers.

Maximum safety.

For flammable bath fluid

before leaving the factory.

100% Checked.

JULABO. Quality.

life.

Classification III according to DIN12876-1

enables safe operation, even with flammable

Classification III (FL) according to DIN 12876-1

100% testing. 100% quality. Each JULABO

Circulator undergoes thorough quality testing

Highest standards of quality for a long product

fluids. Automatic switch-off in the event of high temperature or low liquid level.

11 subsidiaries and more than 100 partners worldwide guarantee fast and qualified JULABO support.



Services 24/7.

Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at www.julabo.com.